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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/792,130

03/04/2004

Jeong Dae Seo

K-0619

3916

34610 7590 09/20/2007
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EXAMINER

THOMPSON, CAMIE S

ART UNIT

PAPER NUMBER

1774

MAIL DATE

DELIVERY MODE

09/20/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/792,130	SEO ET AL.	
	Examiner	Art Unit	
	Camie S. Thompson	1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE filed August 1, 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,6,7 and 9 is/are rejected.
- 7) ☒ Claim(s) 5, 8 and 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>5/10/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 1, 2007 has been entered.
2. Applicant's amendment and accompanying remarks filed July 2, 2007 are acknowledged.
3. Examiner acknowledges amended claims 1, 4, 5 and 9.
4. The objection to claim 1 is overcome by applicant's amendment.
5. The rejection of claims 1, 2, 4 and 6-10 under 35 U.S.C. 103(a) as being unpatentable over Shi et al., U.S. 5,972,247 in view of Enokida et al., U.S. Patent Number 5,759,444 is withdrawn due applicant's argument.
6. The rejection of claims 1, 2 and 4-9 under 35 U.S.C. 103(a) as being unpatentable over Hosokawa et al., U.S. Patent Number 6,534,199 is withdrawn due to applicant's argument.

Claim Rejections - 35 USC § 112

7. Claim 1-2, 4, 6-7 and 9 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the

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claimed invention. Claim 1 is rejected as introducing new matter with respect to the negative limitation applied to “phenyl” of the aryl group. Any negative limitation or exclusionary proviso must have basis in the original disclosure. See MPEP 2173.05(i). Claims 2, 4, 6-7 and 9 are rejected as dependent from claim 1 and inheriting the limitation thereof.

Claim Rejections - 35 USC § 102

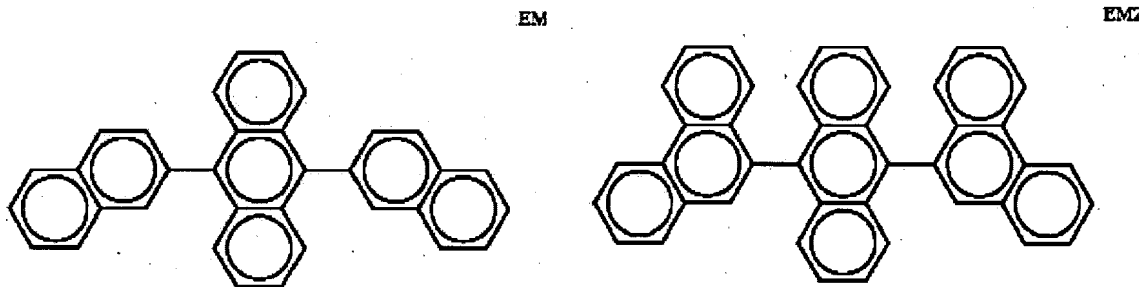
8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

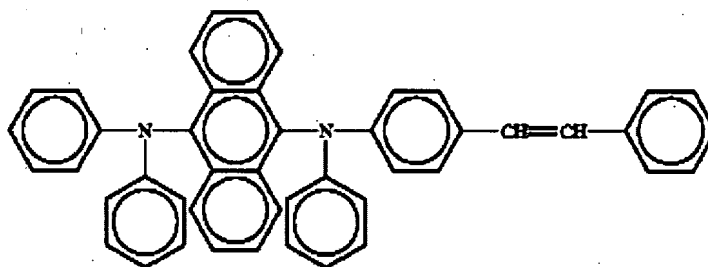
A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1-2, 4, 6-7 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Hosokawa et al., U.S. Patent Number 6,534,199.

Hosokawa discloses an organic electroluminescence device that comprises an organic light emitting medium which is disposed between a pair of electrodes wherein the light emitting medium comprises a composition that can include compounds EM21 or EM22





with compound EM39

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Hosokawa reference reads on instant chemical formula 1 when A1 is phenyl and A2 is a substituted or unsubstituted phenyl and B1 and B2 can be naphthyl or phenanthryl as per instant claims 1, 4, 6-7. Reference claim 5 discloses that the mixture comprises a weight ratio of 2:98 to 9:91 as per instant claim 2. Compound EM39 of the reference reads on the compound of chemical formula 1 and it would be expected that the material have green luminescence.

10. Claims 5, 8 and 10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not provide for the recited organic electroluminescent device, further including the host material being a compound included in instant claim 5. Additionally, the prior art does not provide for the recited organic electroluminescent device, further including the dopant material having at least one of A1 and A2 having a substituent as represented in claims 8 and 10.

Response to Arguments

11. Applicant's arguments filed August 1, 2007 have been fully considered but they are not persuasive. Applicant argues that the Hosokawa reference does not read on the present claims in that B1 and B2 cannot be phenyl. Hosokawa reads on the present claims in that compounds

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EM21 and EM22 have B1 and B2 represented by naphthyl. The Hosokawa reference reads on the present claims with compounds EM21 and EM22 in a light emitting medium in combination with compound EM39. Compound EM39 reads on instant chemical formula 1 in that A1 and A2 are substituted or unsubstituted phenyl. Upon further examination, the Hosokawa reference anticipates instant claims 1-2, 4, 6-7 and 9.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano, can be reached at (571) 272-1398. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



MILTON I. CANO
SUPERVISORY PATENT EXAMINER